

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

150

Name of Work: Modified Estimate For Providing and Installation of Decorative Tusker Street Light Poles and Lights from Tirumala Daba to M S Palya Circle in Ward No.03

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	Removing and resetting of footpath Slab (Approved arrival Rate)								
						0.00	Sqm	267.55	0.00
	Approved Rate@		267.55						
2	Removing and resetting of Kerb Stone (Approved arrival Rate)								
						0.00	Mtr	134.34	0.00
	Approved Rate		134.34						
3	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work. Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3)								
	Sandeep Unnikrishnan Road								
	From Thirumala Daba to MS Palya	83	1.00	0.65	1.50	80.93			
						80.93	Cum	296.01	23954.30
	Approved Rate		296.01						
4	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 250 t.km 5 rs /km= 8km = 5*8 = 40								
				Density (t/m3)					
	Qty From Item No-03	1	80.93	1.28		103.58			
						103.58	t.km	45.54	4717.63
	Approved Rate		45.54						
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (V-I Page No.15, Item No.2.1.4 of PWD SR 2021-22)								
						0.00	Cum	6746.70	0.00
	Approved Rate		6746.70						

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
6	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)								149
	Sandeep Unnikrishnan Road								
	From Thirumala Daba to MS Palya	83	1.00	0.65	0.15	8.09			
						8.09	Cum	6548.60	52994.55
	Approved Rate		6548.60						
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, LNo.2.4.2 of PWD SR 2021-22)								
	Sandeep Unnikrishnan Road								
	From Thirumala Daba to MS Palya	83	0.95	0.45	1.50	53.22			
						53.22	Cum	7478.52	398034.63
	Approved Rate		7478.52						
8	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, LNo 13.1 Page No 99, PWD SR 2021-22)								
	Sandeep Unnikrishnan Road								
	From Thirumala Daba to MS Palya								
	Total Pole=83 Nos								
	Main bar 12mm dia bar @ 200mm C/C								
	Stirrup 10mm dia bar @ 200mm C/C								
	Main Bar-14	14	86	1.30	0.89	1393.03			
	Stirrup-8	6	86	2.80	0.61	881.33			
						2274.36			
						2.27	Ton	117639.09	267553.18
	Approved Rate		117639.09						
9	Providing and Fixing Pre cast covering Slab 100mm thick made out of CC, jelly 20mm Down size with steel reinforcement including form work,curing,including cost of all materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.								

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
						0.00	Sqm	2379.45	0.00
	Approved Rate		2379.45						
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete.								
						0.00	Nos	519.57	0.00
	Approved Rate		519.57						
11	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III, P.No.56, I.No.8.10 of PW, PWD SR 2021-22)								
						0.00	Sqm	87.97	0.00
	Approved Rate		87.97						
12	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 90 Watts								
	LED Streetlight 90 Watts	381				381.00			
						381.00	Nos		
					Upto 125%	63.00	Nos	7410.53	466863.68
					Above 125%	318.00	Nos	7410.53	2356550.01
	Approved Rate		7410.53						

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
13	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 120 Watts								127
	LED Streetlight 120 Watts	50				50.00			
						50.00	Nos	9521.92	476096.05
	Approved Rate							9521.92	
14	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 150 Watts								
	LED Streetlight 150 Watts	242				242.00			
						242.00	Nos	12730.39	3080755.46
	Approved Rate							12730.39	
15	Supplying and Fixing of. mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.Pipe								
	Qty From Item No-12	381.00				381.00			

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Qty From Item No-13	50.00				50.00			
						431.00	Nos		
					Upto 125%	125.00	Nos	864.22	108027.66
					Above 125%	306.00	Nos	864.22	264451.71
	Approved Rate		864.22						
16	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch. The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7.Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32								126
		21				21.00			
						21.00	Nos	17305.06	363406.23
	Approved Rate		17305.06						
17	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 Mtr. Length								
		21				21.00			
						21.00	Nos		
					Upto 125%	5.00	Nos	1241.99	6209.95
					Above 125%	16.00	Nos	1241.99	19871.84
	Approved Rate		1241.99						
18	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories.Double bracket 2x1.5 Mtr. Length								
						0.00	Nos	2030.65	0.00
	Approved Rate		2030.65						
19	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 25 sqmm								
		1	3035.00			3035.00			
						3035.00	Mtr	186.30	565409.83
	Approved Rate		186.30						

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount	
20	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 35 sqmm								185	
		1	500.00			500.00				
						500.00	Mtr	232.88	116437.77	
	Approved Rate		232.88							
21	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct. 25 sqmm to 75 sqmm									
	Labour Charge From 25 to 75 Sqmm									
	Qty From Item No-19					3035.00				
	Qty From Item No-20					500.00				
						3535.00	Mtr	16.04	56697.74	
	Approved Rate		16.04							
22	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)									
		1	2490.00			2490.00				
						2490.00	Mtr	78.66	195855.89	
	Approved Rate		78.66							
23	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 3C X 1.5Sq.mm									
		1	2420.00			2420.00				
						2420.00	Mtrs			
						Upto 125%	2187.50	Mtrs	56.92	124512.70
						Above 125%	232.50	Mtrs	56.92	13233.92
	Approved Rate		56.92							
24	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than .25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV,40mm									
		1	60.00			60.00				
						60.00	Mtrs	346.73	20803.53	
	Approved Rate		346.73							
25	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.35Sqmm									
		12				12.00				
						12.00	Nos	362.25	4347.02	
	Approved Rate		362.25							
26	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel									
		1162.00				1162.00				
						1162.00	Nos			
						Upto 125%	830.00	Nos	20.70	17182.49

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
			Above 125%			332.00	Nos	20.70	6873.00
	Approved Rate		20.70						
27	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.								100
		6				6.00			
						6.00	Nos	4295.22	25771.32
	Approved Rate		4295.22						
28	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm								
		1	48.00			48.00			
						48.00	Mtr	263.92	12668.08
	Approved Rate		263.92						
29	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete16SWG								
		6	35000.00			210000.00			
						210000.00	Sqm m	0.36	76596.66
	Approved Rate		0.36						
30	Supplying and fixing Moulded Case Circuit Breaker (MCCB)over the existing wood/panel board using necessary screws,bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)100Amps 25kA.								
		6				6.00			
						6.00	Nos	6623.95	39743.67
	Approved Rate		6623.95						
31	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.								
		342				342.00			
						342.00	Nos	181.12	61943.39
	Approved Rate		181.12						
32	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.25x3mm Copper strip								
		1	30.00			30.00			
						30.00	Mtr	522.67	15680.13
	Approved Rate		522.67						

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
33	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%, efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic								143
		83				83.00			
						83.00	Nos	263.92	21905.23
	Approved Rate		263.92						
34	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63 Amps								
		18				18.00			
						18.00	Nos	234.95	4229.02
	Approved Rate		234.95						
35	Supplying and fixing of Spiral Earth Electrodes as per standard technical specification as per ESCOM.								
		83				83.00			
						83.00	Each	507.77	42144.57
	Approved Rate		507.77						
36	Erection of steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail I Beam of sizes 200x100mm, 175x90 mm, 125x100 mm. Fabricates poles tubular poles in pits of 1.8 mtr Depth, Aligning, Refilling with soil and ramming as approved drawing (Releasing of LED Lights=90% of ersion Charges Rs334x90%=300.6)								
		100				100.00			
						100.00	Each	311.12	31111.85
	Approved Rate		311.12						
37	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. (Releasing of LED Lights=90% of ersion Charges Rs 175x90%=157.50)								
		100				100.00			
						100.00	Each	162.49	16248.94
	Approved Rate		162.49						
38	Hiring of 35 tons capacity Crane for releasing and refixing of High Mast								
		100				100.00			
						100.00	Hrs	567.18	56718.00
	Approved Rate		567.18						

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
39	Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	6				6.00			
						6.00	Nos	71186.71	427120.25
	Approved Rate								
40	Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	50				50.00			
						50.00	Nos	30842.74	1542137.22
	Approved Rate								
41	Fabricating, Supplying and errection of decorative bent type Tuskar Conical Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications.suitable to with stand the wind speed. The total height of the pole 9 mtrs. The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom 178 mm,at 9 mtrs height 70 mm 3mm thick and one number of 3 mtr height and 139.7 mm dia perforated pole having colour changing LED Fixture, inside as suitable to the Drawing and picture. The base plate size of 350mm x 350mm x 18 mm for poles and a common baseplate of 900x320x20 mm and the pole shall be galvanized with not less than 65 micron etc and finally finished with paint as required with two different colour. (With out foundation). As per the enclosed Drawing ,pictures and IS standards compleet set includes templat & 6 nos 24 mm x750mm anchor bolts.								
	Sandeep Unnikrishnan Road								
	From Thirumala Daba to MS Palya	83				83.00			
						83.00	Nos	120705.88	10018587.78
	Approved Rate								

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
42	Laying of UG Cables by trenchless technology by adopting horizontal boring & Drawing of cable including preparation at site With HDPE Pipe i) Normal soil 5/6" bore size								141
		1	150.00			150.00			
						150.00	Nos	877.68	131651.62
	Approved Rate		877.68						
	EIRL								
E1	Aerial Bunched Cable (ABC) 1.1 kV, LT Aerial Bunched Cable, XLPE insulation confirming to IS-14255: 1995 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral) (P No-13, I No-B 42.07, Bescom SR, 2021-22)								
		1	1000.00			1000.00			
						1000.00	Mtr		
						1.00	Km	205395.75	205395.75
	Basic Rate		198450.00						
	Add TP 3.50%		6945.75						
	Total		205395.75						
E2	LABOUR for Aerial Bunched Conductor & Accessories Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control) (P No-10, I No-B 34.04, Bescom SR 2021-22)								
	Qty From Item no-E1					1.00			
						1.00	Km	26743.37	26743.37
	Basic Rate		25839.00						
	Add TP 3.50%		904.37						
	Total		26743.37						
E3	Supply of Suspension Clamp suitable for insulated Messenger wire of size 25 to 95 Sqmm (P No-13, I No-43.01, Bescom SR 2021-22)								
		25				25.00			
						25.00	Nos	188.37	4709.25
	Basic Rate		182.00						
	Add TP 3.50%		6.37						
	Total		188.37						
E4	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connection (P No-1, I No-43.12, Bescom SR 2021-22)								
		42				42.00			
						42.00	Nos	154.22	6477.03
	Basic Rate		149.00						
	Add TP 3.50%		5.22						
	Total		154.22						
E5	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of Pole Clamp and Eye Hook) (P No-13, I No-43.16, Bescom SR 2021-22)								
		4				4.00			
						4.00	Nos	151.11	604.44
	Basic Rate		146.00						
	Add TP 3.50%		5.11						
	Total		151.11						
E6	Erection of Suspension Clamp - 25 to 95 Sqmm bare messenger (P No-13, I No-34.06, Bescom SR 2021-22)								
		25				25.00			
						25.00	Nos	70.38	1759.50
	Basic Rate		68.00						
	Add TP 3.50%		2.38						
	Total		70.38						

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
E7	Installation of Insulation piercing connector for Main to Street Light Main : 16-95 Sqmm, Tap: 1.5-10 Sqmm (EP95) (P No-13, I No-34.12, Bescorm SR 2021-22)								140
		42				42.00			
						42.00	Nos	301.19	12649.77
	Basic Rate	291.00							
	Add TP 3.50%	10.19							
	Total	301.19							
E8	Fixing of Dead End Clamp (P No-13, I No-B 34.02, Bescorm SR 2021-22)								
		4				4.00			
						4.00	Nos	301.19	1204.74
	Basic Rate	291.00							
	Add TP 3.50%	10.19							
	Total	301.19							
E9	Fabricating, Supplying and erection of decorative Zig- Zag bent type Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications, suitable to with stand the wind speed. The total height of the pole 7 mtrs towards road and 5 Mtrs footpath, between the pole V shaped MS/any decorativ laser cutting jolly work The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom square pipe of 175x175x4mmx2 Mtrs length and above 2 mtrs a dia of 76.1x3.25mmx5Mtrs and 3 Mtrs, as suitable to the Drawing and picture. The base plate size of 350mm x 350mm x 16 mm the pole shall be galvanized with not less than 65 micron etc and finally finished with PU paint as required with two different colour. (With out foundation). As per the enclosed Drawing ,pictures and IS standards complete set includes templat 4 nos M20 x750mm anchor bolts.(DATA RATE)								
		6				6.00			
						6.00	Nos	92891.25	557347.50
	Basic Rate	89750.00							
	Add TP 3.50%	3141.25							
	Total	92891.25							
	Total Construction Cost								22351989.84
	GST 18% For Item No-01 to 38 and 42								1718505.59
	Sub Total 1								24070495.43
	Miscellaneous								6,865.33
	SANCTIONED TENDER COST+12% GST								24077360.76

Assistant Engineer (ELE)
Yelahanka Sub Division

Asst. Executive Engineer (ELE)
Yelahanka Sub Division

Executive Engineer (ELE)
Yelahanka Division

Technical Sanction
Accorded For Rs. 24,07,736.76
Head of A/C... P.O. 932...
CER NO : 11... Dt. 24/04/23